AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Currently amended) A system comprising:
2	a plurality of devices, wherein devices within the plurality of devices
3	communicate with incompatible protocols;
4	a first device in the plurality of devices having a universal contextual
5	interface,
6	wherein the universal contextual interface does not have a priori
7	knowledge of the devices' file system domain protocol or the devices'
8	printer domain protocol,
9	wherein the devices' file system domain protocol comprises
10	Network File System (NSF) or Common Internet File System (CIFS),
11	wherein the devices' printer domain protocol comprises Internet
12	Printing Protocol (IPP) or Line Printer Daemon,
13	wherein the universal contextual interface is implemented in Java;
14	wherein the universal contextual interface comprises instructions
15	that are particular to the first device, wherein the instructions can:
16	be understood and performed by the plurality of devices to
17	enable the plurality of devices to communicate and transfer
18	contextual data with the first device;
19	provide event notifications to the plurality of devices with
20	respect to changes in contextual data for the first device; and

21	enable the plurality of devices to receive user interfaces to
22	allow users of the plurality of devices to view changed contextual
23	data or enable the plurality of devices to receive data from the first
24	device; and
25	wherein contextual data includes information with respect to the
26	first device including type, owner, history of use, whether the first device
27	is currently in use, other operating status information, identity, location on
28	network, administrative domain, information with respect to one or more
29	users of the first device or files stored at the first device; and
30	a second device in the plurality of devices that invokes the universal
31	contextual interface of the first device by executing the instructions to transfer the
32	contextual data associated with the first device between the first device and at
33	least one of the other devices in the plurality of devices, the plurality of devices
34	having no prior knowledge of each other;
35	wherein the universal contextual interface is directly invoked by the
36	second device to allow the contextual data to be transferred to the second device;
37	wherein the second device registers as a listener with the first device
38	through a notification interface of the first device to receive event notifications
39	with respect to changes in the contextual data associated with the first device; and
40	wherein the universal contextual interface allows components using
41	different operating systems, communication protocols, file formats, and data types
42	to transfer context information between each other without requiring the
43	components to use domain-specific interfaces, protocols, or data format.

- 2. (Previously Presented) The system as set forth in claim 1 wherein the at least one of the plurality of devices comprises the second device.
 - 3. (Previously Presented) The system as set forth in claim 1 wherein the

2

- 2 first device sends a context object to the second device to be used by the second
- 3 device to transfer the contextual data.
- 4. (Previously Presented) The system as set forth in claim 1 wherein the second device receives a context object from the first device to be used by the at least one of the plurality of devices for receiving contextual data transmitted from
- 4 the first device.

2

3

4

1

2

3

1

2

3

4

- 5. (Previously Presented) The system as set forth in claim 1 wherein the at least one of the plurality of devices uses the contextual data as a criteria to authorize the first device or the second device to access instructions, data or operations associated with the at least one of the plurality of devices.
 - 6. (Previously Presented) The system as set forth in claim 1 wherein the universal contextual interface or a context object have source-specific, object-oriented mobile code that can be understood and performed by the at least one of the plurality of devices to receive contextual data.
 - 7. (Previously Presented) The system as set forth in claim 1 wherein the plurality of devices further comprise at least one software application or at least one file.
 - 8. (Previously Presented) The system as set forth in claim 1 wherein the first device further comprises a historical database having at least one record of data provided by the second device during invocation of the universal contextual interface.
 - 9. (Previously Presented) The system as set forth in claim 1 wherein the

3	of the plurality of devices to receive an event notification each time the contextua
4	data changes.
1	10. (Previously Presented) The system as set forth in claim 1 wherein the
2	contextual data comprises executable computer language instructions, or a type,
3	operating status, identity, location, administrative domain or environment
4	information of at least one of the plurality of devices.
1	11. (Currently amended) A method for providing context information, the
2	method comprising:
3	invoking a universal contextual interface associated with a first device in a
4	plurality of devices, wherein devices within the plurality of devices communicate
5	with incompatible protocols, and wherein the universal contextual interface is
6	implemented in Java,
7	wherein the universal contextual interface does not have a priori
8	knowledge of the devices' file system domain protocol or the devices'
9	printer domain protocol,
10	wherein the devices' file system domain protocol comprises
11	Network File System (NSF) or Common Internet File System (CIFS),
12	wherein the devices' printer domain protocol comprises Internet
13	Printing Protocol (IPP) or Line Printer Daemon,
14	wherein the universal contextual interface comprises instructions
15	that are particular to the first device, wherein the instructions can:
16	be understood and performed by the plurality of devices to
17	enable the plurality of devices to communicate and transfer
18	contextual data with the first device;

second device invokes a universal notification interface to register the at least one

19	provide event notifications to the plurality of devices with
20	respect to changes in contextual data for the first device; and
21	enable the plurality of devices to receive user interfaces to
22	allow users of the plurality of devices to view changed contextual
23	data or enable the plurality of devices to receive data from the first
24	device; and
25	wherein contextual data includes information with respect to the
26	first device including type, owner, history of use, whether the first device
27	is currently in use, other operating status information, identity, location on
28	network, administrative domain, information with respect to one or more
29	users of the first device or files stored at the first device; and
30	wherein invoking the universal contextual interface involves executing the
31	instructions to transfer the contextual data associated with the first device
32	between the first device and a second device in the plurality of devices, the
33	plurality of devices having no prior knowledge of each other;
34	wherein the universal contextual interface is directly invoked by the
35	second device to allow the contextual data to be transferred to the second device;
36	wherein the second device registers as a listener with the first device
37	through a notification interface of the first device to receive event notifications
38	with respect to changes in the contextual data associated with the first device; and
39	wherein the universal contextual interface allows components using
40	different operating systems, communication protocols, file formats, and data types
41	to transfer context information between each other without requiring the
42	components to use domain-specific interfaces, protocols, or data format.

12. (Previously Presented) The method as set forth in claim 11 wherein the second device or a third device in the plurality of devices perform the invoking and executing.

1

2

1	13. (Previously Presented) The method as set forth in claim 11 further
2	comprising sending a context object to the at least one of the plurality of devices
3	to be used for transferring the contextual data.

- 14. (Previously Presented) The method as set forth in claim 11 further comprising using the contextual data as a criteria to authorize the second device to access instructions, data or operations associated with the one of the plurality of devices.
- 15. (Previously Presented) The method as set forth in claim 11 wherein the universal contextual interface or a context object have source-specific, object-oriented mobile code that can be interpreted and performed by the first device or the at least one of the plurality of devices to receive contextual data.
- 16. (Previously Presented) The method as set forth in claim 11 wherein the plurality of devices further comprise at least one software application or at least one file.
 - 17. (Original) The method as set forth in claim 11 further comprising storing in a historical database at least one record of data provided during invocation of the universal contextual interface.
 - 18. (Previously Presented) The method as set forth in claim 11 further comprising invoking a universal notification interface to register the at least one of the plurality of devices to receive an event notification each time the contextual data changes.
 - 19. (Previously Presented) The method as set forth in claim 11 wherein the

3	instructions or a type, operating status, identity, location, administrative domain
4	or environment information of at least one of the devices or of at least one user of
5	the plurality of devices.
1	20. (Currently amended) A computer readable medium having stored
2	thereon instructions for providing context information, which when executed by
3	at least one processor, causes the processor to perform:
4	invoking a universal contextual interface associated with a first device in a
5	plurality of devices, wherein devices within the plurality of devices communicate
6	with incompatible protocols, and wherein the universal contextual interface is
7	implemented in Java;
8	wherein the universal contextual interface does not have a priori
9	knowledge of the devices' file system domain protocol or the devices'
10	printer domain protocol,
11	wherein the devices' file system domain protocol comprises
12	Network File System (NSF) or Common Internet File System (CIFS),
13	wherein the devices' printer domain protocol comprises Internet
14	Printing Protocol (IPP) or Line Printer Daemon,
15	wherein the universal contextual interface comprises instructions
16	that are particular to the first device, wherein the instructions can:
17	be understood and performed by the plurality of devices to
18	enable the plurality of devices to communicate and transfer
19	contextual data with the first device;
20	provide event notifications to the plurality of devices with
21	respect to changes in contextual data for the first device; and
22	enable the plurality of devices to receive user interfaces to
23	allow users of the plurality of devices to view changed contextual

contextual data comprises executable computer programming language

data or enable the plurality of devices to receive data from the first
device; and
wherein contextual data includes information with respect to the
first device including type, owner, history of use, whether the first device
is currently in use, other operating status information, identity, location on
network, administrative domain, information with respect to one or more
users of the first device or files stored at the first device; and
wherein invoking the universal contextual interface involves executing the
instructions to transfer the contextual data associated with the first device
between the first device in and a second device in the plurality of devices, the
plurality of devices having no prior knowledge of each other; and
wherein the universal contextual interface is directly invoked by the
second device to allow the contextual data to be transferred to the second device;
wherein the second device registers as a listener with the first device
through a notification interface of the first device to receive event notifications
with respect to changes in the contextual data associated with the first device; and
wherein the universal contextual interface allows components using
different operating systems, communication protocols, file formats, and data types
to transfer context information between each other without requiring the
components to use domain-specific interfaces, protocols, or data format.

21. (Previously Presented) The medium as set forth in claim 20 wherein the second device or a third device in the plurality of devices perform the invoking and executing.

22. (Previously Presented) The medium as set forth in claim 20 further comprising sending a context object to the at least one of the plurality of devices to be used for transferring the contextual data.

,

- 23. (Previously Presented) The medium as set forth in claim 20 further comprising using the contextual data as a criteria to authorize the second device to access instructions, data or operations associated with the one of the plurality of devices.
- 24. (Previously Presented) The medium as set forth in claim 20 wherein the universal contextual interface or a context object have source-specific, objectoriented mobile code that can be interpreted and performed by the first device or the at least one of the plurality of devices to receive contextual data.
 - 25. (Previously Presented) The medium as set forth in claim 20 wherein the plurality of devices further comprise at least one software application or at least one file.
 - 26. (Original) The medium as set forth in claim 20 further comprising storing in a historical database at least one record of data provided during invocation of the universal contextual interface.
 - 27. (Previously Presented) The medium as set forth in claim 20 further comprising invoking a universal notification interface to register the at least one of the plurality of devices to receive an event notification each time the contextual data changes.
 - 28. (Previously Presented) The medium as set forth in claim 20 wherein the contextual data comprises executable computer programming language instructions or a type, operating status, identity, location, administrative domain or environment information of at least one of the devices or of at least one user of the plurality of devices.